

RS for ET 200SP Reversing starter Expandable Setting range  
0.3...1A AC-3, 0.25 kW / 400 V Hybrid starter



Figure similar

product brand name	SIMATIC
Product designation	Motor starters
General technical data:	
Product function	Reversing starter
• on-site operation	Yes
• Intrinsic device protection	Yes
• Adjustable current limitation	Yes
• Remote firmware update	Yes
• for power supply Reverse polarity protection	Yes
Insulation voltage	
• rated value	500 V
Degree of pollution	2
Overvoltage category	III
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
• between main and auxiliary circuit	500 V
Protection class IP	IP20

<b>Shock resistance</b>	6g / 11 ms
<b>Vibration resistance</b>	15 mm to 6 Hz; 2g to 500 Hz
<b>Mechanical service life (switching cycles)</b> <ul style="list-style-type: none"> <li>• of the main contacts typical</li> </ul>	30 000 000
<b>Type of assignment</b>	1
<b>Usage category</b> <ul style="list-style-type: none"> <li>• acc. to IEC 60947-4-2</li> <li>• acc. to IEC 60947-4-3</li> </ul>	AC53a: 1A: (8-0,7: 70-32) AC51: 1A: (1,2-10: 50-360)
<b>Equipment marking</b> <ul style="list-style-type: none"> <li>• acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</li> <li>• acc. to DIN EN 61346-2</li> </ul>	Q A
<b>Product function</b> <ul style="list-style-type: none"> <li>• direct start</li> <li>• reverse starting</li> </ul>	Yes Yes
Product function Short circuit protection	Yes
<b>Design of short-circuit protection</b>	fuse
<b>Trip class</b>	CLASS 5 and 10 adjustable
<b>Maximum short-circuit current breaking capacity (Icu)</b> <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 500 V acc. to UL 60947 rated value</li> </ul>	55 kA 55 kA 100 kA

#### Electromagnetic compatibility:

<b>EMC emitted interference</b> <ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	class A
<b>Conducted interference</b> <ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	2 kV 2 kV 1 kV
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>	8 kV air discharge
<b>Conducted HF-interference emissions acc. to CISPR11</b>	Class A for industrial environment
<b>Field-bound HF-interference emission acc. to CISPR11</b>	Class A for industrial environment

#### Inputs/ Outputs:

<b>Number of digital inputs</b>	4
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#### Main circuit:

<b>Number of poles for main current circuit</b>	3
<b>Design of the switching contact</b>	Hybrid

Adjustable pick-up value current of the current-dependent overload release	0.3 ... 1 A
Minimum load [% of IM]	20 %
Type of the motor protection	solid-state
Operating voltage	
• rated value	48 ... 500 V
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Operating range relative to the operating voltage at AC	
• at 50 Hz	48 ... 500 V
Operating current	
• at AC at 400 V rated value	1 A
Operating power	
• for three-phase motors at 400 V at 50 Hz minimum	0.09 kW
• for three-phase motors at 400 V at 50 Hz maximum	0.25 kW

#### Supply voltage:

Type of voltage of the supply voltage	DC
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#### Control circuit/ Control:

Type of voltage of the control supply voltage	DC
Control supply voltage 1	
• at DC rated value	20.4 ... 28.8 V
Control current	
• at DC in standby mode	85 mA
• at DC during operation	140 mA
• at DC when switching on	230 mA
Switch-on delay time	20 ... 25 ms
Off-delay time	20 ... 35 ms
Power loss [W] in auxiliary and control circuit	
• in switching state OFF	
— with bypass circuit	1.6 W
— without bypass circuit	0 W
• in switching state ON	
— with bypass circuit	2.9 W
— without bypass circuit	0 W

#### Installation/ mounting/ dimensions:

Mounting type	pluggable in BaseUnit
Height	142 mm
Width	30 mm
Depth	150 mm

<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— upwards</li> <li>— downwards</li> </ul> </li> </ul>	50 mm 50 mm
<b>Ambient conditions:</b>	
<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	-25 ... +60 °C -40 ... +70 °C -40 ... +70 °C
<b>Relative humidity during operation</b>	10 ... 95 %
<b>Air pressure</b>	
<ul style="list-style-type: none"> <li>• acc. to SN 31205</li> </ul>	900 ... 1 060 hPa
<b>Communication/ Protocol:</b>	
<b>Product function Bus communication</b>	Yes
<b>Protocol</b>	
<ul style="list-style-type: none"> <li>• is supported PROFIBUS DP protocol</li> <li>• is supported PROFINET protocol</li> </ul>	Yes Yes
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• supports PROFIenergy measured values</li> <li>• supports PROFIenergy shutdown</li> </ul>	Yes Yes
<b>Connections/ Terminals:</b>	
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main energy infeed</li> <li>• for load-side outgoing feeder</li> <li>• for supply voltage line-side</li> </ul>	Plug contact to Base Unit Plug contact to Base Unit Plug contact to Base Unit
<b>Wire length for motor unshielded maximum</b>	200 m
<b>UL/CSA ratings:</b>	
<b>Full-load current (FLA) for three-phase AC motor</b>	
<ul style="list-style-type: none"> <li>• at 480 V rated value</li> </ul>	1 A
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• at AC at 60 Hz acc. to CSA and UL rated value</li> </ul>	480 V
<b>Certificates/approvals</b>	

General Product Approval		Declaration of Conformity	Test Certificates	other
				<a href="#">Typprüfbescheinigung/Werkszeugnis</a>
CCC	CSA	UL	EG-Konf.	<a href="#">Bestätigungen</a>

#### other

[PROFINET-Zertifizierung](#)

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK13080BB000CP0>

**Cax online generator**

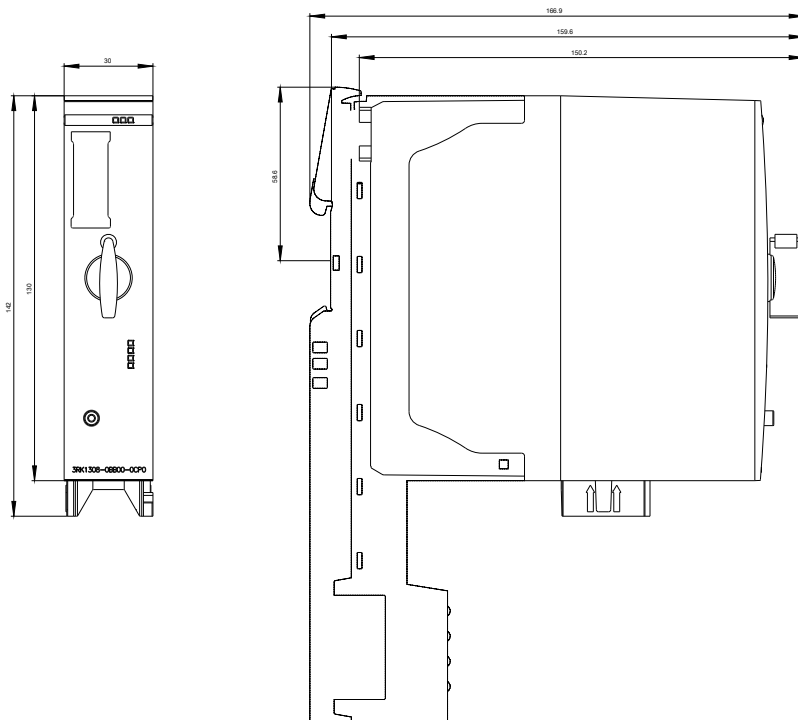
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK13080BB000CP0>

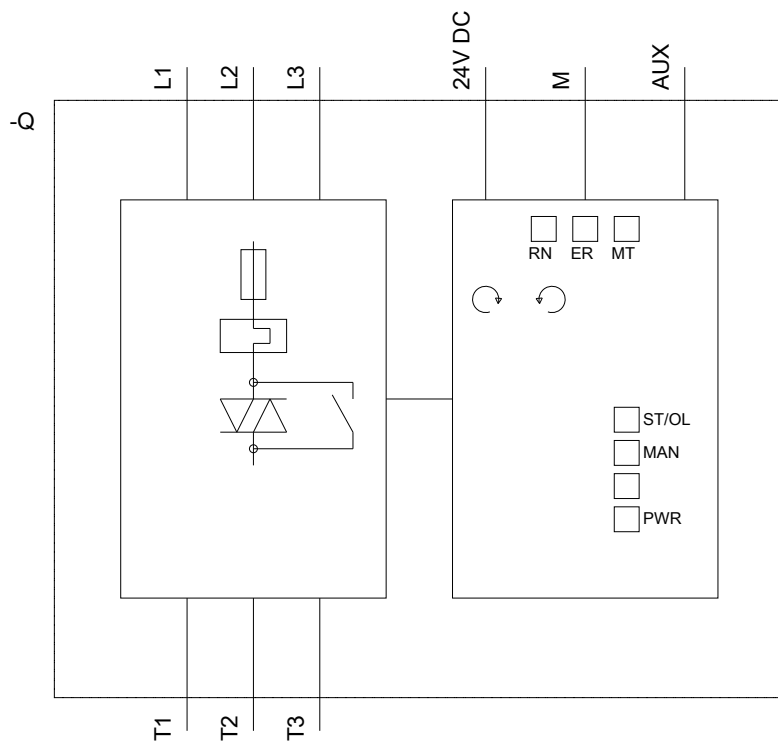
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RK13080BB000CP0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK13080BB000CP0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK13080BB000CP0&lang=en)





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